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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/309,480	05/10/1999	DANIEL S. RICE	5181-40901	7575
58467 MHKKG/SUN			EXAMINER	
P.O. BOX 398			YANG, RYAN R	
AUSTIN, TX 7			ART UNIT	PAPER NUMBER
			2628	
			MAIL DATE	DELIVERY MODE
			03/05/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
	09/309,480	RICE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Ryan R. Yang	2628					
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address					
Period for Reply	/ IO OFT TO EVEIDE A MONTH!	0) OD THIDTY (00) BAYO					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>05 Ju</u>	ıne 2000.						
	action is non-final.						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-64</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>1-15 and 33-64</u> is/are allowed.							
6)⊠ Claim(s) <u>16-32</u> is/are rejected.	· · · · · · · · · · · · · · · · · · ·						
7)⊠ Claim(s) <u>17-64</u> is/are objected to.	7) Claim(s) <u>17-64</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)☐ All b)☐ Some * c)☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Office action for a list of	or the certified copies not receive	a.					
Attachment(s) 1) Notice of References Cited (RTO 902)	A) Intomica O	(PTO 412)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4)	ate					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P 6) Other:	atent Application					
Paper No(s)/Mail Date	o) 🗀 Oulet						

DETAILED ACTION

1. This action is responsive to communications: Amendment, filed on 12/17/2008. This action is non-final.

- 2. Claims 1-64 are pending in this application. Claims 1, 16, 17, 32, 33, 48, 49 and 64 are independent claims.
- 3. The present title of the invention is "Texture mapping method and apparatus for computer implemented graphical image processing".

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 16 is rejected under 35 U.S.C. 101 as not falling within one of the four statutory categories of invention. Supreme Court precedent¹ and recent Federal Circuit decisions² indicate that a statutory "process" under 35 U.S.C. 101 must (1) be tied to another statutory category (such as a particular apparatus), or (2) transform underlying subject matter (such as an article or material) to a different state or thing. While the instant claim recites a series of steps or acts to be performed, the claim(s) neither transform underlying subject matter nor positively tie to another statutory category that

¹ Diamond v. Diehr, 450 U.S. 175, 184 (1981); Parker v. Flook, 437 U.S. 584, 588 n.9 (1978); Gottschalk v. Benson, 409 U.S. 63, 70 (1972); Cochrane v. Deener, 94 U.S. 780, 787-88 (1876).

² In re Bilski, 88 USPQ2d 1385 (Fed. Cir. 2008).

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accomplishes the claimed method steps, and therefore do not qualify as a statutory process. For example, the claimed steps do not explicitly or inherently require using an apparatus or machine.

¹ Diamond v. Diehr, 450 U.S. 175, 184 (1981); Parker v. Flook, 437 U.S. 584, 588 n.9 (1978); Gottschalk v. Benson, 409 U.S. 63, 70 (1972); Cochrane v. Deener, 94 U.S. 780, 787-88 (1876).

¹ In re Bilski, 88 USPQ2d 1385 (Fed. Cir. 2008).

Claims 17-32 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 17-32 claim a texture mapper comprising all the elements that do not have corresponding hardware in the specification. Further evidence that a texture mapper is not a hardware is in claims 49-64 which claim computer program storing program instructions that have similar elements as claimed in claims 17-32. Therefore, Claims 17-32 are software elements. Software program per se is non-statutory.

Specification

5. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

As per claims 17, 32, 33, 49, 54, 58, 60 and 64, "a texture coordinate parser" and "an interpolated texel generator" do not have support from the specification.

As per claims 18, 24, 29, 34, 37, 40, 45 and 53, "an accumulator" does not have support from the specification.

As per claims 58 and 61, "a texel color composer" does not have support from the specification.

Allowable Subject Matter

Claims 1-15 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

As per claim 1, the closest prior art by Hannah et al (5,548,709) or Devic et al (6,181,347) does not explicitly disclose "selecting a pair of complementary coefficients from a table, stored in the memory, of predetermined complementary coefficients according to the fractional portion of the first texture coordinate of the pixel".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan R. Yang whose telephone number is (571) 272-7666. The examiner can normally be reached on M-F 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Xiao Wu can be reached on (571) 272-7664. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Ryan R Yang/ Primary Examiner, Art Unit 2628 March 5, 2009